Applicant: Morris, et al. Attorney's Docket No.: PP23697.0001/20366-005001

Serial No.: 10/085,117

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## AMENDMENTS TO THE CLAIMS:

Please add new claims 38 and 39.

Please amend claims 24, 26, 27, 29 and 37 as follows:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-23 (Cancelled)

24. (Currently amended) A method of diagnosing colon cancer comprising:

- a) determining the level of a <u>nucleic acid</u> nucleotide sequence comprising a sequence at least 98% identical to SEQ ID NO:167, or a full complement thereof, in a patient sample comprising colon tissue; and
- b) comparing the level of the <u>nucleic acid</u> nucleotide sequence in (a) to a level of the <u>nucleic acid</u> nucleotide sequence in a second sample, said second sample comprising non-cancerous colon tissue;

wherein a decrease of at least 50% in a level of expression of the nucleic acid between the patient sample and the second sample a patient sample with a level of expression the nucleotide sequence at least 50% less than the level of expression of the nucleotide sequence in the second sample indicates that the patient has colon cancer, and wherein the nucleotide sequence at least 98% identical to SEQ ID NO:167 encodes a polypeptide which binds to the promoter of the inosine-5'monophosphate dehydrogenase type II gene.

## Claim 25. (Cancelled)

26. (Currently amended) The method of claim 24 wherein the <u>nucleic acid</u> nucleotide sequence comprises SEQ ID NO:167.

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27. (Currently amended) A method of diagnosing colon cancer comprising:

- (a) determining the level of a <u>nucleic acid</u> <del>nucleotide sequence</del> comprising SEQ ID NO:167, or a full complement thereof, in a patient sample comprising colon tissue; and
- (b) comparing the level of the <u>nucleic acid</u> nucleotide sequence in (a) to a level of the <u>nucleic acid</u> nucleotide sequence in a second sample, said second sample comprising non-cancerous colon tissue;

wherein a decrease in a level of expression of the nucleic acid of at least 50% between the patient sample and the second sample a patient sample with a level of expression of the nucleotide sequence at least 50% less than the level of expression of the nucleotide sequence in the second sample indicates that the patient has colon cancer.

Claim 28 (Cancelled)

29. (Currently amended) The method of claim 24 or claim 27 wherein the decrease difference between the level of the <u>nucleic acid nucleotide sequence</u> in (a) and the level of the <u>nucleic acid nucleotide sequence</u> in the second sample is at least 100%.

Claims 30-31 (Cancelled)

Claims 32-36 (Cancelled)

37. (**Currently amended**) The method of claim 24 wherein the nucleotide sequence at least 98% identical to SEQ ID NO:167 encodes a polypeptide having the same <del>cell</del> proliferation activity as <u>EGR1</u> a polypeptide encoded for by SEQ ID NO:167.

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## 38. (New) A method of colon cancer comprising:

- a) determining the level of a nucleotide sequence that hybridizes under highly stringent conditions to SEQ ID NO:167, or the complete complement thereof, in a patient colon sample; wherein hybridization is performed at 60°C in a solution with a sodium ion concentration from about 0.01 to 1.0M, pH 7.0 to 8.3 comprising formamide; and
- b) comparing said level of nucleotide sequence in (a) to a level of the nucleotide sequence in a second sample, said second sample comprising a negative control comprising non-cancerous tissue;

wherein a decrease of at least 50% between the level of the nucleotide sequence in (a) and the level of the nucleotide sequence in the second sample indicates that the patient has colon cancer.

- 39. (New) A method of diagnosing colon cancer comprising:
- (a) determining the level of a nucleic acid comprising a nucleotide sequence which encodes the polypeptide encoded by SEQ ID NO:167 in a patient sample comprising colon tissue; and
- (b) comparing the level of the nucleic acid in (a) to a level of the nucleic acid in a second sample, said second sample comprising non-cancerous colon tissue;

wherein a decrease in a level of expression of the nucleic acid of at least 50% between the patient sample and the second sample indicates that the patient has colon cancer.